

515 Somerville Avenue Somerville, Massachusetts



December 28, 2021

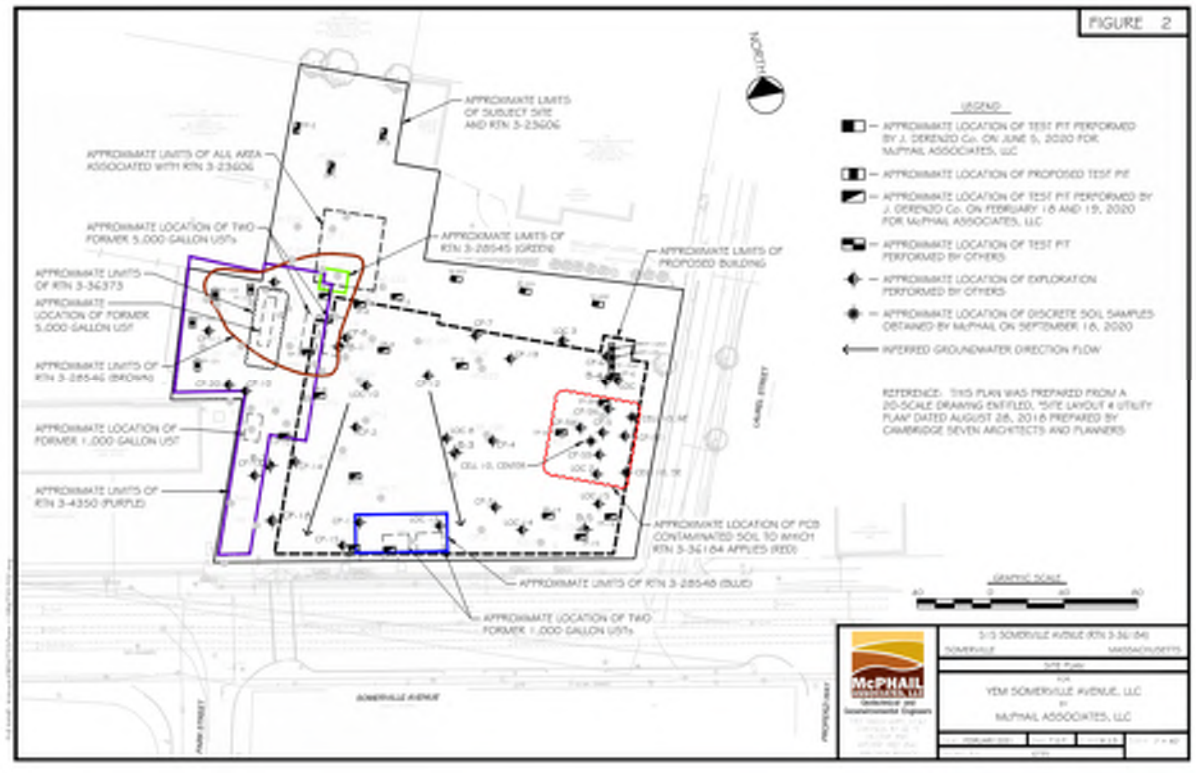
Site History

- ▶ 1900 to 1924 – Residential
- ▶ 1924 to 1950 – Automotive Repair Shop/Gas Station
- ▶ 1950 to 1972 – Eastern Overall Company
 - ▶ Uniform supply and cleaning company
- ▶ 1972 to 2002 – Cutting/Seaming Textiles for Sports Apparel
- ▶ 2002 to March 2020 – Vacant
- ▶ March 2020 - Present – Construction Site

Regulatory History

► Release Tracking Numbers (RTNs)

- 3-4350
 - 3-23606
 - 3-28545
 - 3-28548
 - 3-28564
 - 3-36373 (linked)
 - 3-36184
- } Permanent
Solution
Achieved
- } Open



Constituents of Concern (COCs)

▶ 3-23606

- ▶ Asbestos Containing Material (ACM)
- ▶ Polycyclic Aromatic Hydrocarbons (PAHs)
- ▶ Petroleum Hydrocarbons
- ▶ Volatile Organic Compounds (VOCs)
- ▶ Metals

▶ 3-36184

- ▶ Polychlorinated Biphenyls (PCBs)
- ▶ Volatile Petroleum Hydrocarbons

MCP Compliance Reporting

- ▶ Release Abatement Measure (RAM) Plan; RTNs 3-23606 and 3-36184
 - ▶ Filed with DEP on March 17, 2020. (Prior to the start of Construction)
- ▶ RAM Status Reports (July 2020, January 2021, and July 2021)
- ▶ Immediate Response Action (IRA) Report; RTN 3-36373
 - ▶ IRA excavation commenced after the completion of the PIP comment period In Oct. 2020
- ▶ IRA Status Report (November 2020)
- ▶ Phase I Initial Site Investigation Report and Tier II Tier Classification; RTN 3-36184
 - ▶ Filed with the DEP 1 year after notification of RTN 3-36184 on March 3, 2021
- ▶ IRA Completion Report; RTN 3-36373
 - ▶ Filed with the DEP after expiration of 20-day comment period on May 5, 2021.
 - ▶ Linked RTN 3-36373 with 3-36184

Response Actions Completed

► Excavation of Contaminated Soils

- A total of approximately 757 cubic yards of PCB contaminated soil was excavated and disposed of off-site to a Subitled D Landfill.
- A total of approximately 825 cubic yards of petroleum contaminated soil was excavated and recycled off-site at a Asphalt Batch Plant
- A total of approximately 4,486 cubic yards of mildly contaminated soils (i.e. low levels of metals and petroleum related constituents) were removed off-site to an in-state unlined landfill.
- The excavation removed all fill material and natural soil to a depth of about 12 feet below ground surface over the area of the building footprint and access ramp (30,750 square feet).

► Removal of Underground Storage Tank (UST)

- 6,000-gallon UST fill with concrete was removed from the northwestern portion of the site.
- Although filled with concrete, analysis of the concrete suggested that the tank formerly contained No. fuel oil or diesel.

► Replacement of Clean Cover Cap over AUL area

- Upper 1-foot of clean soil was excavated and replaced with clean densely graded subbase material which was subsequently covered by approximately 3.5-inches of asphalt pavement.
- AUL area will remain covered by asphalt pavement and will be utilized as a proposed parking lot.

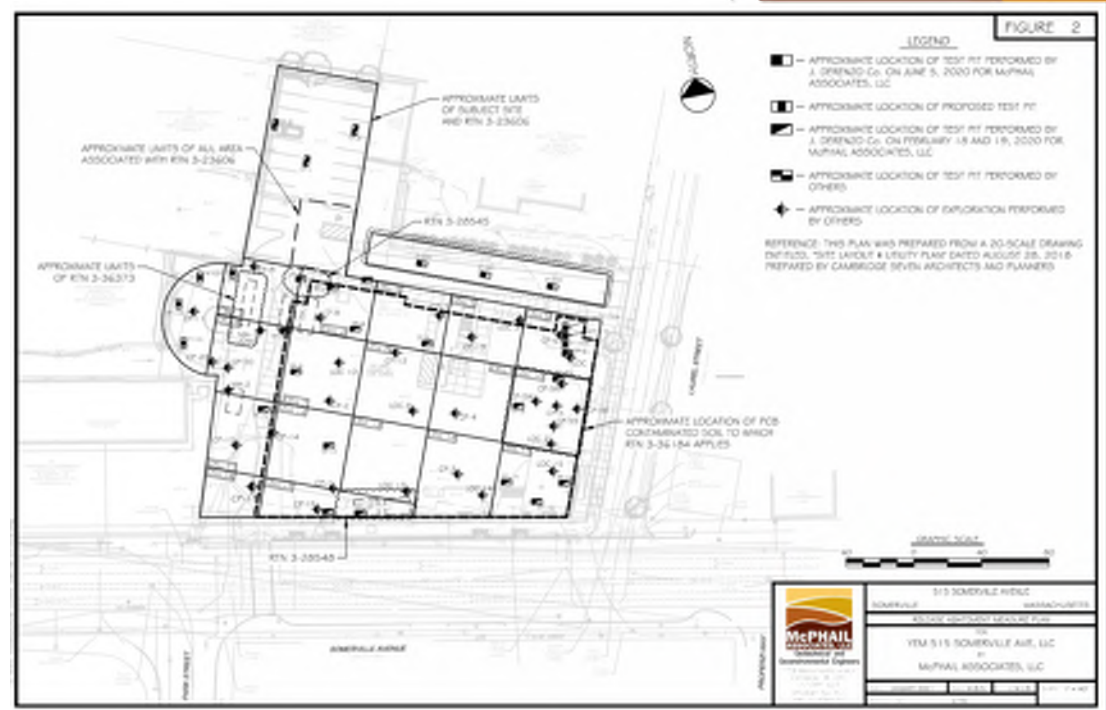
Response Actions

- ▶ Environmental Monitoring Plan
 - ▶ Continuous Dust Monitoring performed daily during the excavation of contaminated soils
 - ▶ Ambient Air Screening for VOCs was also performed during excavation of contaminated soils, in particular those affected by petroleum hydrocarbons
 - ▶ Actions levels for dust and VOCs were not triggered during excavation activities.



Assessment of Extent and Exposure Risk

- ▶ Laboratory analysis was performed on over 110 samples to pre-characterize soil across the site prior to construction.
- ▶ The parameters for laboratory analysis included metals, volatile organic compounds, semi-volatile organic compounds, petroleum hydrocarbons and PCBs.
- ▶ The laboratory testing identified an area of fill material that contained elevated levels of PCBs. The area measured 45' X 45' in area and extended from 3 to 9 feet below ground surface.
- ▶ The PCB affected soil was removed during construction of the below grade parking garage.
- ▶ Levels of PCBs were not detected in the natural soil (the bottom of the parking garage excavation)



Assessment of Extent and Exposure Risk

- ▶ A series of soil sampling was performed upon removal of the tank at the northwestern portion of the subject site. A total of 13 samples were collected from the tank grave and remedial excavation
- ▶ The samples were analyzed for diesel related and gasoline related petroleum hydrocarbons.
- ▶ Gasoline related hydrocarbons (lighter fractions) were determined to be in excess of the MCP reporting and risk standards.
- ▶ A 4-foot thickness of petroleum contaminated soil was excavated from beneath the tank corresponding to about 14 feet below ground surface. The extent of the remedial excavation measured about 12' x 30'. Soil samples were obtained from limits of the remedial excavation.
- ▶ Post remedial testing of groundwater did not detect a release of petroleum hydrocarbons in groundwater.
- ▶ The results of a Method 3 Risk Characterization that utilized the results of the post remedial soil testing indicates that a Condition of No Significant Risk exists at the site

